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The picture shows the Bosch Headquarter in Shanghai which is also the home of the Research and Technology Center

Master thesis

Investigate the influence of different manufacturing technologies on the electromagnetic performance of an electric traction motor

Begin: from December / flexible
Duration: 6 months

Our value-adding innovations are “Invented for life” – and they’re unrivalled in quality, performance and reliability for people and the environment. Our mission is to improve the quality of life with Bosch products. State-of-the-art technology and sustainable growth are our cornerstones. At the same time, we fully embrace our social and ecological responsibility. That’s how we make sure we deliver what people need, now and in the future.

When you work at Bosch, you are part of a leading technology and services company. We operate in 60 countries around the globe. The company employs roughly 402,000 associates worldwide (as of December 31, 2017), and generated total sales of more 78.1 billion euros in 2017.

Thesis description

- As one of the most important parts of the electric traction motor, the lamination stack is the focus of this thesis.
- Objective is to compare the influence of different manufacturing technologies for lamination stack on the electromagnetic performance of an electric traction motor
- The manufacturing technologies of lamination stacks in the electric traction motor application are to be investigated
- Main tasks includes
 - Theoretically illustration of the product design, especially the design of lamination stack
 - Description / modelling of the manufacturing processes for lamination stack
 - Qualitative analysis of the influence of different manufacturing technologies on the electromagnetic performance
 - Design of experiment to quantitatively analyze the above mentioned influence based on a defined product design
 - Comparison and interpretation of the results of qualitative analysis and quantitate analysis

Start your career now!**Country:** China**Location:** Shanghai

Contact

Jing Zhang

+86 21 2218 1492

Jing.Zhang14@cn.bosch.com

Please do not hesitate to send me your CV and actual transcript if you are interested!

We provide you with

- Very interesting research topic
- Chances to get close to Chinese supplier in the field of lamination stack manufacturing
- Supervisor who can speak German and with high responsibility

Candidate profile

- Study in the area of Electric Machine, Electric Vehicles, Manufacturing technologies, Industrial Engineering, Mechanical Engineering or similar
- Knowledge in electric machine design, simulation, prototyping are preferred
- Efficient, goal-oriented, structured working style

In China, BOSCH was awarded as Top Employer for the 7th time in a row from 2012 to 2018

